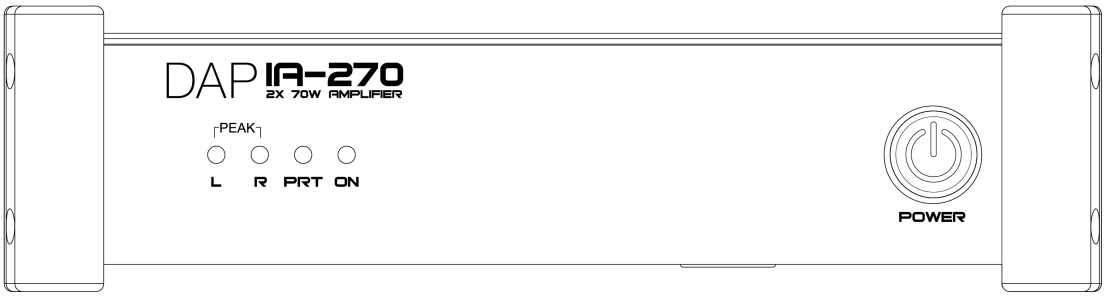
DAP

USER MANUAL

ENGLISH

V1.0



IA-270

Product code: D4600

Preface

Thank you for purchasing this DAP product.

The purpose of this user manual is to provide instructions for the correct and safe use of this product.

Keep the user manual for future reference as it is an integral part of the product. The user manual shall be stored at an easily accessible location.

This user manual contains information concerning:

- Safety instructions
- Intended and non-intended use of the device
- Installation and operation of the device
- Maintenance procedures
- Troubleshooting
- Transport, storage and disposal of the device

Non-observance of the instructions in this user manual may result in serious injuries and damage of property.

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1. Introduction

1.1. Before Using the Product

Important
Read and follow the instructions in this user manual before installing, operating or servicing this product.

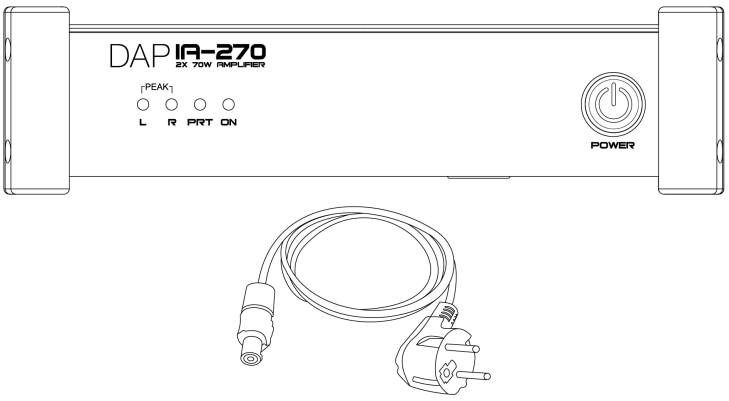
The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual.

After unpacking, check the contents of the box. If any parts are missing or damaged, contact your Highlite International dealer.

Your shipment includes:

Figure 1

- DAP IA-270
- Schuko to Power Pro cable (1,5 m)
- User manual



1.2. Intended Use

This device is intended for professional use as a power amplifier for fixed installations. It can be installed only indoors. This device is not suitable for households.

Any other use, not mentioned under intended use, is regarded as non-intended and incorrect use.

1.3. Product Lifespan

This device is not designed for permanent operation.

Disconnect the device from the electrical power supply when the device is not in operation. This will reduce the wear and will improve the lifespan of the device.

1.4. Text Conventions

Throughout the user manual the following text conventions are used:

- References: References to parts of the device are in bold lettering, for example: "turn the **adjustment handle (05)**". References to chapters are hyperlinked
- 0–255: Defines a range of values
- Notes: **Note:** (in bold lettering) is followed by useful information or tips

1.5. Symbols and Signal Words

Safety notes and warnings are indicated throughout the user manual by safety signs.

Always follow the instructions provided in this user manual.



DANGER Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.



Attention Indicates important information for the correct operation and use of the product.



Important Read and observe the instructions in this document.



Electrical hazard



Provides important information about the disposal of this product.

1.6. Symbols on the Information Label

This product is provided with an information label. The information label is located on the back side of the device.

The information label contains the following symbols:



This device shall not be treated as household waste.



This device conforms with European health, safety and environmental standards.

2. Safety



Important
Read and follow the instructions in this user manual before installing, operating or servicing this product.

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual.

2.1. Warnings and Safety Instructions



DANGER
Danger for children

For adult use only. The device must be installed beyond the reach of children.

- Do not leave any parts of the packaging (plastic bags, polystyrene foam, nails, etc.) within the reach of children. Packaging material is a potential source of danger for children.



DANGER
Electric shock caused by dangerous voltage inside

There are areas inside the device where dangerous touch voltage may be present.

- Do not open the device or remove any covers.
- Do not operate the device if the covers or the housing are open. Before operation, check if the housing is firmly closed and all screws are tightly fastened.
- Disconnect the device from the electrical power supply before service and maintenance, and when the device is not in use.



DANGER
Electric shock caused by short-circuit

This device falls under IEC protection Class I.

- Make sure that the device is electrically connected to ground (earth). Connect the device only to a socket-outlet with a ground (earth) connection.
- Do not cover the ground (earth) connection.
- Do not let the power cable come into contact with other cables. Handle the power cable and all connections with the mains with caution.
- Do not modify, bend, mechanically strain, put pressure on, pull or heat up the power cable.
- Make sure that the power cable is not crimped or damaged. Examine the power cable periodically for any defects.
- Do not immerse the device in water or other liquids. Do not install the device in a location where flooding may occur.
- Do not use the device during thunderstorms. Disconnect the device from the electrical power supply immediately.



Attention
Power supply

- Before connecting the device to the power supply, make sure that the current, voltage and frequency match the input voltage, current and frequency specified on the information label on the device.

- Make sure that the cross-sectional area of the extension cords and power cables is sufficient for the required power consumption of the device.



Attention
General safety

- Do not shake the device. Avoid brute force when installing or operating the device.
- If the device is dropped or struck, disconnect the device from the electrical power supply immediately.
- If the device is exposed to extreme temperature variations (e.g. after transportation), do not switch it on immediately. Let the device reach room temperature before switching it on, otherwise it may be damaged by the formed condensation.
- If the device fails to work properly, discontinue use immediately.



Attention
For professional use only
This device must be used only for the purposes it is designed for.

This device is designed to be used as a power amplifier for fixed installations. Any incorrect use may lead to hazardous situations and result in injuries and material damage.

- This device is not suitable for households.
- This device does not contain user-serviceable parts. Unauthorized modifications to the device will render the warranty void. Such modifications may result in injuries and material damage.



Attention
Do not expose the device to conditions that exceed the rated IP class conditions.

This device is IP20 rated. IP (Ingress Protection) 20 class provides protection against solid objects greater than 12 mm, such as fingers, and no protection against harmful ingress of water.

2.2. Requirements for the User

This product may be used by ordinary persons. Installation and maintenance may be carried out by ordinary persons. Service shall be carried out only by instructed or skilled persons. Contact your Highlite International dealer for more information.

Instructed persons have been instructed and trained by a skilled person, or are supervised by a skilled person, for specific tasks and work activities associated with the installation, service and maintenance of this product, so that they can identify risks and take precautions to avoid them.

Skilled persons have training or experience, which enables them to recognize risks and avoid hazards associated with the installation, service and maintenance of this product.

Ordinary persons are all persons other than instructed persons and skilled persons. Ordinary persons include not only users of the product but also any other persons that may have access to the device or who may be in the vicinity of the device.

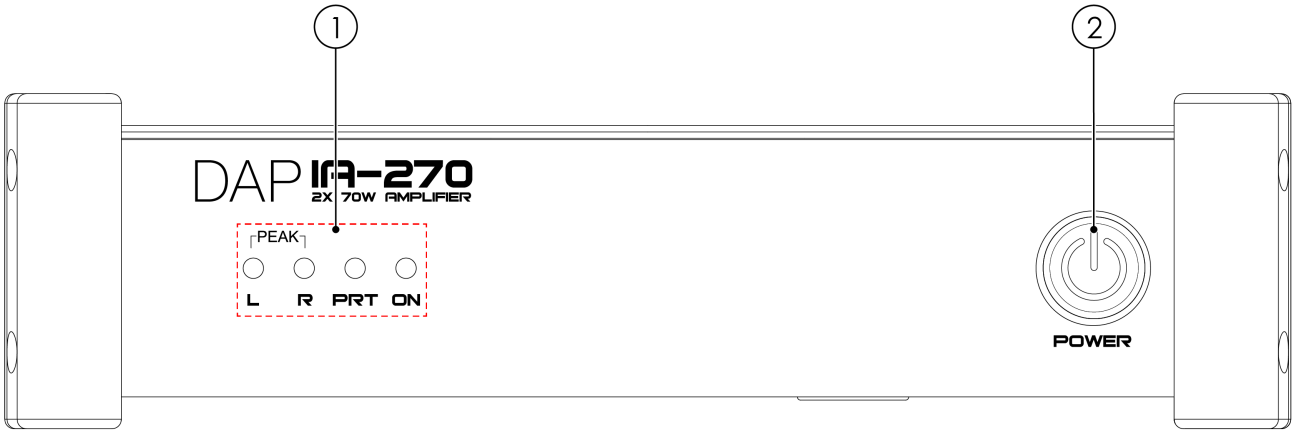
3. Description of the Device

The DAP IA-270 is a compact and stylish audio power amplifier for fixed installations. It has an internal high-pass filter (100 Hz) that can be activated per channel by a switch on the back. The IA-270 has jack inputs as well as balanced terminal inputs that are looped through to terminal outputs. You can choose to forward the original audio signal or have the gain settings applied to it. You can use the amplifier as a stereo amp, but with the audio loop through you can also set it up as a dual mono amp. Thanks to its fanless convection cooling, the amp is completely silent in operation.

The extruded aluminum housing follows the design of existing DAP audio tools, albeit in a slightly larger footprint. The height of the unit is a mere single rack space (1 U). All controls are deliberately put on the back in order to prevent unintentional changing during daily operation. LEDs on the front indicate the status of the amplifier.

3.1. Front View

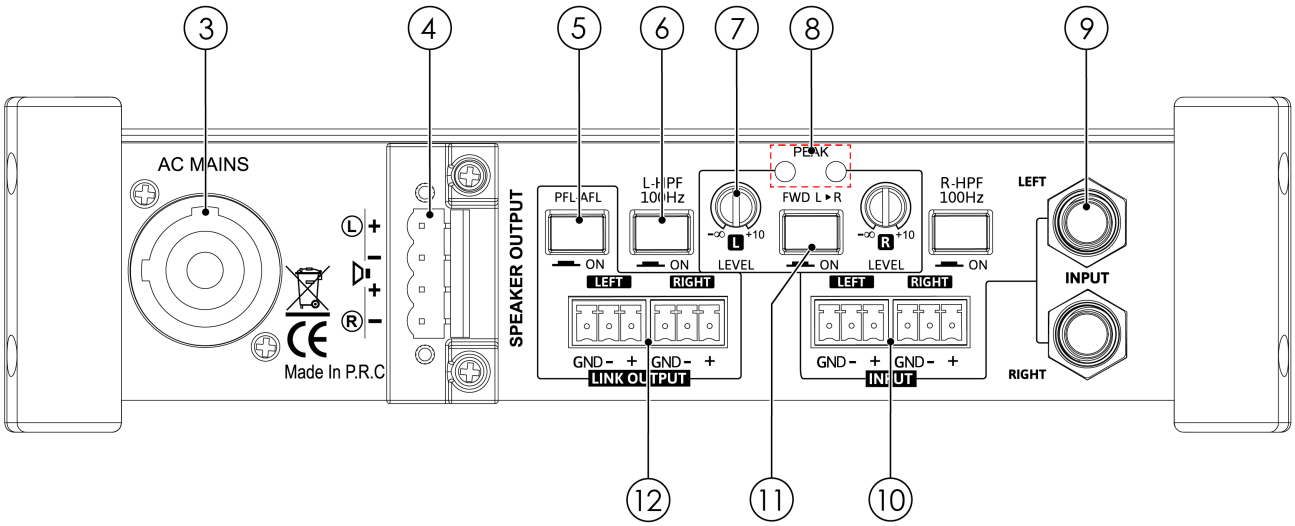
Figure 2



01) LED status indicators (see 5.4. LED Statuses on page 15)
02) Power button

3.2. Back View

Figure 3



03) Power Pro connector IN (blue)
04) Speaker terminal connector OUT
05) PFL-AFL button (see 5.3. Audio Functions on page 14)
06) 2 x HPF button (left/right) (see 5.3. Audio Functions on page 14)
07) 2 x gain level control (left/right) (see 5.3. Audio Functions on page 14)
08) 2 x peak LED indicator (left/right) (see 5.4. LED Statuses on page 15)
09) 2 x balanced 6,3 mm TRS connector IN (left/right)
10) 2 x 3-pin Phoenix terminal connector IN (left/right)
11) FWD button (see 5.3. Audio Functions on page 14)
12) 3-pin Phoenix terminal connector OUT (left/right)

3.3. Product Specifications

Model:	IA-270

Inputs:	
Stereo Inputs	2
Stereo Input connector	Phoenix / TRS balanced 6,3 mm

Outputs:	
Power amplifier RMS output	70 W
Output channels	2
Output mode	Parallel / stereo
Output connector	Terminal
Passive output connector	Terminal

Electrical Specifications and Connections:	
Power supply	220–240 V AC 50 Hz
Power consumption	160 W
Power connector IN	Power Pro Blue

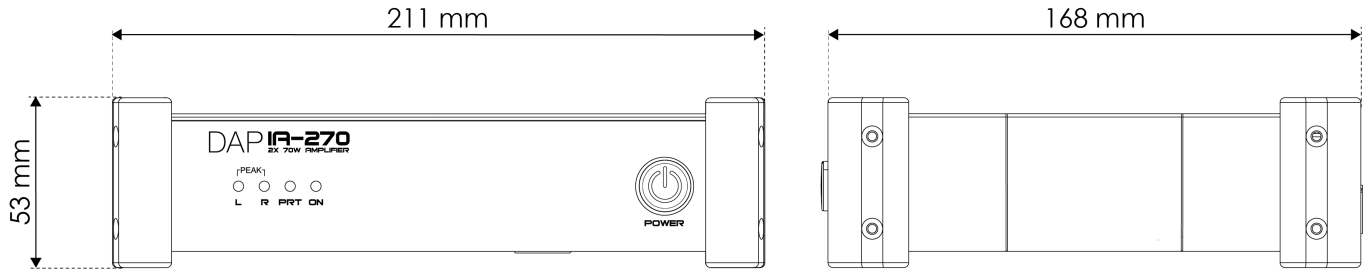
Mechanical Specifications:	
Height	53 mm
Width	211 mm
Depth	168 mm
Housing	Aluminum
Color	Black
Weight	1,35 kg
IP rating	IP20 (indoor use only)
Amplifier cooling	Convection

Thermal Specifications:	
Maximum ambient temperature	40 °C
Minimum ambient temperature	0 °C

Included Items:	
Included cables	Power Pro cable

3.4. Dimensions

Figure 4



3.5. Optional Accessories and Software

You can optionally purchase the following accessory:

- D7821 Showgear 19" Panel 1HE for Non 19"

4. Installation and Setup

4.1. Warnings and Precautions

Attention
Make sure that all inputs and outputs are connected before turning the power on.
Turn the power off before disconnecting inputs or outputs.

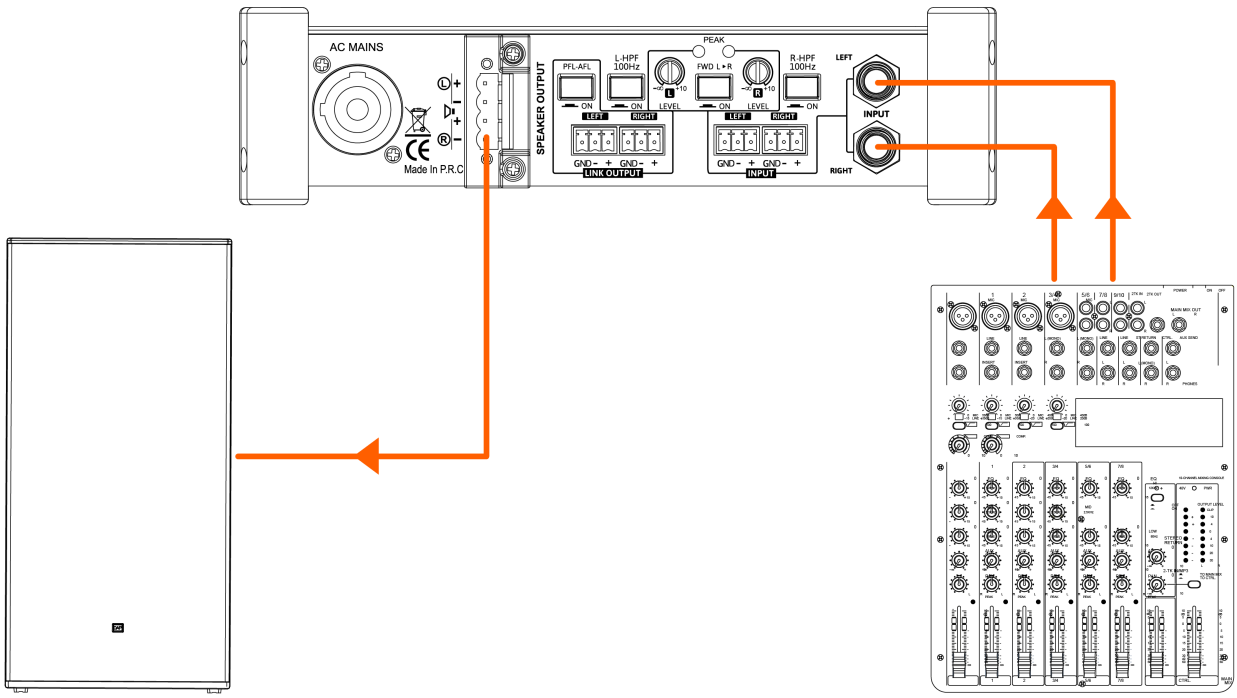
4.2. Installation Site Requirements

- The device can be used only indoors.
- The maximum ambient temperature t_a = 40 °C must never be exceeded.
- The relative humidity must not exceed 50 % with an ambient temperature of 40 °C.

4.3. Setup Example

This figure shows an example of a typical setup. For more information refer to Connecting Devices (see 4.4. Connecting Devices on page 12).

Figure 5



4.4. Connecting Devices

4.4.1. Connecting Source Devices

The device has 2 types of input connections:

- **3-pin Phoenix terminal connectors IN (10)**, and
- **balanced 6,3 mm TRS connectors IN (09)**

To connect a source to the terminal connectors:

01) Remove the **3-pin Phoenix terminal connectors IN (10)**.
02) Connect the output cables of the source device to **3-pin Phoenix terminal connectors IN (10)**. Make sure that the wire polarity is correct.
03) Insert the **3-pin Phoenix terminal connectors IN (10)** back into the device.

Alternatively, connect the source to the **balanced 6,3 mm TRS connectors IN (09)**.

4.4.2. Connecting Output Devices

You can connect a passive speaker to output the audio signal of the source with the audio settings applied (see 5.3. Audio Functions on page 14). Alternatively, you can forward the original audio signal to the **3-pin Phoenix terminal connectors OUT (12).**

To connect a passive speaker, follow the steps below:

01) Connect the cable of the speaker to a 4-pin Phoenix terminal connector (not included). Make sure that the wire polarity is correct.
02) Insert the 4-pin Phoenix terminal connector into the **speaker terminal connector OUT (04)**.

To forward the original audio signal, follow the steps below:

01) Remove the **3-pin Phoenix terminal connectors OUT (12)**.
02) Connect the output cables of the source device to the **3-pin Phoenix terminal connectors OUT (12)**. Make sure that the wire polarity is correct.
03) Insert the **3-pin Phoenix terminal connectors OUT (12)** back into the device.

4.5. Connecting to Power Supply



DANGER
Electric shock caused by short-circuit

The device accepts AC mains power at 100–240 V and 50/60 Hz. Do not supply power at any other voltage or frequency to the device.

This device falls under IEC protection class I. Make sure that the device is always electrically connected to the ground (earth).

Before connecting the device to the socket-outlet:

- Make sure that the power supply matches the input voltage specified on the information label on the device.
- Make sure that the socket-outlet has a ground (earth) connection.

Connect the device to the socket-outlet with the power plug. Do not connect the device to a dimmer circuit, as this may damage the device.

5. Operation

5.1. Safety Instructions for Operation

Attention
This device must be used only for the purposes it is designed for.

This device is intended for professional use as a power amplifier for fixed installations. It can be used only indoors. This device is not suitable for households.

Any other use, not mentioned under intended use, is regarded as non-intended and incorrect use.

Attention
Power supply

Before connecting the device to the power supply, make sure that the current, voltage and frequency match the input voltage, current and frequency specified on the information label on the device.

5.2. Switching ON/OFF

This device has a power button.

- Press the **power button (02)** to switch on the device. The power LED indicator (see 5.4. LED Statuses on page 15) turns on.
- Press the **power button (02)** to switch off the device. The power LED indicator (see 5.4. LED Statuses on page 15) turns off.

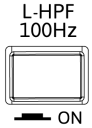
Make sure that the device is switched off from the **power button (02)** when the device is not in use.

5.3. Audio Functions

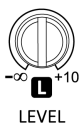
The back of the device features a number of audio controls that can be used to adjust the signal input and output.



PFL-AFL: Press the **PFL-AFL button (05)** to switch between pre-fader listen mode and after-fader listen mode. Pre-fader listen mode sends the signal to the 3-pin **Phoenix terminal connectors OUT (12)** without the gain settings applied



HPF (L/R): Press the **HPF button (06)** to active a high-pass filter on the respective channel. The high-pass filter removes frequencies below 100 Hz



LEVEL: Turn the **gain level control (07)** to adjust the output volume for the respective channel



FWD L > R: Press the **FWD button (11)** to forward the signal from the left channel to the right channel and use the device as a dual mono amp

5.4. LED Statuses

There are 3 **status LED indicators (01)** on the front of the device. There are 2 additional **peak LED indicators (08)** on the back of the device. The LED indicators have the following statuses:

- PEAK (L/R): Illuminates yellow when the incoming signal is close to clipping. The LEDs should only light up briefly during dynamic peaks
- PRT: Illuminates red when the amp is overloaded
- ON: Illuminates green when the device is powered on

6. Troubleshooting

This troubleshooting guide contains solutions to problems which can be carried out by an ordinary person. The device does not contain user-serviceable parts.

Unauthorized modifications to the device will render the warranty void. Such modifications may result in injuries and material damage.

Refer servicing to instructed or skilled persons. Contact your Highlite International dealer in case the solution is not described in the table.

Problem	Probable cause(s)	Solution
The device does not function at all	No power to the device	• Make sure that power is switched on and cables are plugged in.
	Internal fuse is blown	• Contact your Highlite International dealer
No sound	Volume is set to minimum	• Increase the volume

7. Maintenance

7.1. Preventive Maintenance



Attention
Before use, examine the device visually for any defects.

Make sure that:

- The housing is not damaged.
- The power cable is not damaged and does not show any material fatigue.

7.1.1. Basic Cleaning Instructions

To clean the device, follow the steps below:

01) Disconnect the device from the electrical power supply.
02) Allow the device to cool down for at least 5 minutes.
03) Clean the device with a soft, lint-free cloth.



Attention

- Do not immerse the device in liquid.
- Do not use alcohol or solvents.

7.2. Corrective Maintenance

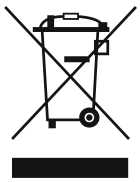
The device does not contain user-serviceable parts. Do not open the device and do not modify the device.

Refer repairs and servicing to instructed or skilled persons. Contact your Highlite International dealer for more information.

8. Deinstallation, Transportation and Storage

- Use the original packaging to transport the device, if possible.
- Clean the device before storing (see 7.1.1. Basic Cleaning Instructions on page 17).
- Store the device in the original packaging, if possible.

9. Disposal



Correct disposal of this product

Waste Electrical and Electronic Equipment

This symbol on the product, its packaging or documents indicates that the product shall not be treated as household waste. Dispose of this product by handing it to the respective collection point for recycling of electrical and electronic equipment. This is to avoid environmental damage or personal injury due to uncontrolled waste disposal. For more detailed information about recycling of this product contact the local authorities or the authorized dealer.

10. Approval

CE

Check the respective product page on the website of Highlite International (www.highlite.com) for an available declaration of conformity.

DAP